Washer Extractors

HC60, HC65, HC75, HC100 HC135, HC165

for corresponding "CHC" and "IHC" models, see page 6 for complete model list.

Technical specifications Installation instructions Maintenance





Part No. D0285R9 Code: 249/00306/20 May 2011

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Build-up

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хНС065ууНуууууу
xHC075yyHyyyyyy
xHC100yyHyyyyyy
xHC135yyHyyyyyy
xHC165yyHyyyyyy
xHC012yyHyyyyyy
xHC014yyHyyyyyy
xHC018yyHyyyyyy
xHC025yyHyyyyyy
xHC030yyHyyyyyy
xHC035vvHvvvvvv

HC60	
HC65	
HC75	
HC100)
HC135	5
HC165	5
HX25	
HX35	

Model numbers

IHC012ANH
IHC012MNH
IHC012MCH
IHC012MDH
IHC012MEH
IHC012MLH
IHC012MXH
IHC012MYH
IHC012SCH
IHC012SDH
IHC012SEH
IHC012SRH
IHC012SLH
IHC012SXH
IHC012SYH
IHC018ANH
IHC018MNH
IHC018MCH
IHC018MDH
IHC018MEH
IHC018MLH
IHC018MXH
IHC018MYH
IHC018SCH
IHC018SDH
IHC018SEH
IHC018SRH
IHC018SLH
IHC018SLH IHC018SXH

IHC025ANH
IHC025MNH
IHC025MCH
IHC025MDH
IHC025MEH
IHC025MLH
IHC025MXH
IHC025MYH
IHC025SCH
IHC025SDH
IHC025SEH
IHC025SRH
IHC025SLH
IHC025SXH
IHC025SYH
IHC030ANH
IHC030MNH
IHC030MCH
IHC030MDH
IHC030MEH
IHC030MLH
IHC030MXH
IHC030MYH
IHC030SCH
IHC030SDH
IHC030SEH
IHC030SRH
IHC030SLH
IHC030SXH
IHC030SYH

IHC035ANH
IHC035MNH
IHC035MCH
IHC035MDH
IHC035MEH
IHC035MLH
IHC035MXH
IHC035MYH
IHC035SCH
IHC035SDH
IHC035SEH
IHC035SRH
IHC035SLH
IHC035SXH
IHC035SYH
IHC060ANH
IHC060MNH
IHC060MCH
IHC060MDH
IHC060MEH
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IHC060MYH
IHC060SCH
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IHC060ZNH
IHC065ANH
IHC065MNH
IHC065MCH
IHC065MDH
IHC065MEH
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IHC065SEH
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IHC065SYH
IHC065ZNH
IHC075ANH
IHC075MNH
IHC075MCH
IHC075MDH
IHC075MEH
IHC075MLH
IHC075MXH
IHC075MYH
IHC075SCH
IHC075SDH
IHC075SEH
IHC075SRH
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CHC060MDH
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CHC060MYH
CHC065ANH
CHC065MNH
CHC065MCH
CHC065MDH
CHC065MEH
CHC065MLH
CHC065MXH
CHC065MYH
CHC075ANH
CHC075MNH
CHC075MCH
CHC075MDH
CHC075MEH
CHC075MLH
CHC075MXH
CHC075MYH
CHC100ANH
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CHCHOOMCH
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CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH
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CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH CHC135MNH CHC135MCH CHC135MDH CHC135MEH CHC135MLH CHC135MLH CHC135MXH CHC135MXH CHC135MYH CHC135MYH CHC165ANH
CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH CHC135MCH CHC135MCH CHC135MEH CHC135MLH CHC135MXH CHC135MXH CHC135MYH CHC135MYH CHC165ANH
CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH CHC135MCH CHC135MCH CHC135MDH CHC135MLH CHC135MLH CHC135MXH CHC135MXH CHC135MXH CHC135MXH CHC135MYH CHC165ANH CHC165MNH CHC165MCH
CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH CHC135MCH CHC135MDH CHC135MEH CHC135MLH CHC135MXH CHC135MYH CHC135MYH CHC165ANH CHC165MNH CHC165MDH
CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH CHC135MCH CHC135MCH CHC135MEH CHC135MEH CHC135MYH CHC135MYH CHC135MYH CHC135MYH CHC165MH CHC165MH
CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH CHC135MCH CHC135MDH CHC135MEH CHC135MLH CHC135MYH CHC135MYH CHC135MYH CHC135MYH CHC135MYH CHC165ANH CHC165ANH CHC165MCH CHC165MCH CHC165MCH CHC165MEH CHC165MEH
CHC100MDH CHC100MEH CHC100MLH CHC100MXH CHC100MYH CHC135ANH CHC135MCH CHC135MCH CHC135MEH CHC135MEH CHC135MYH CHC135MYH CHC135MYH CHC135MYH CHC165MH CHC165MH

Safety

CAUTION LABELS

Please familiarize yourself with the following standard warning symbols. They are used throughout this manual and on the equipment to alert you to possible hazards. Anyone operating or servicing this equipment must understand these symbols and must follow all safety rules in this manual.



ELECTRICAL HAZARD

This symbol alerts you to the presence of a dangerous voltage, which could cause a serious shock resulting in personal injury or death.





CONSULT MANUAL

This symbol warns you to consult the manual for important instructions concerning the machine and possible hazards.



MOVING PARTS HAZARD

This symbol alerts you to the presence of possible dangerous moving parts within the machine. Guards should always be in place when the machine is in operation. Be very careful when servicing the drive system.



PINCHING HAZARD

This warning symbol indicates the presence of a pinch point on the machine. This is a place where your hand might be pinched or crushed, resulting in a severe injury. Make sure you understand these hazards and keep all body parts clear of them.



HOT SURFACE HAZARD

This symbol indicates the presence of a potentially hot surface. Some machine surfaces and parts may become extremely hot during normal operation and should not be touched.



ATTENTION

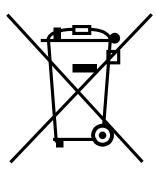
This symbol identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss.

Environmental

Disposal of Unit

This appliance is marked according to the European directive 2002/96/ EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local distributor resources.





Explanation of Safety Messages

Throughout this manual and on machine decals, you will find precautionary statements ("DANGER," "WARNING," and "CAUTION") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.



DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.



WARNING

Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.



CAUTION

Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Use manufacturer-authorized spare parts to avoid safety hazards.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT: The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions



WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

- 1. Read all instructions before using the washer.
- Refer to the GROUNDING INSTRUCTIONS in the installation Manual for the proper grounding of the washer
- Do not wash textiles that have been previously cleaned, washed, soaked, or spotted with gasoline, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
- 4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
- 5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
- 6. Do not allow children to play on or in the washer. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Before the washer is removed from service or discarded, remove the door to the washing compartment.
- 8. Do not reach into the washer if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- 9. Do not install or store the washer where it will be exposed to water and/or weather.
- 10. Do not tamper with the controls.
- 11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
- 12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to an electrical power source.
- 13. Use a washer only for its intended purpose, washing textiles.
- 14. ALWAYS disconnect the washer from the electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
- 15. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
- 16. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire.
- 17. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- 18. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
- 19. Replace worn power cords and/or loose plugs.
- 20. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.

- 21. Loading door MUST BE CLOSED any time the washer is to fill, tumble, or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
- 22. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
- 23. Always follow the fabric care instructions supplied by the textile manufacturer.
- 24. Never operate the washer with any guards and/or panels removed.
- 25. DO NOT operate the washer with missing or broken parts.
- 26. DO NOT bypass any safety devices.
- 27. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.
- 28. It is recommended that the machine be installed by qualified technicians.
- 29. Before starting repairs or maintenance, shut off all power and water supplies.
- 30. To prevent fire and explosion: Keep the area around the machine free from inflammable or combustible products.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution, and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent, or the manufacturer.

SAVE THESE INSTRUCTIONS

Operator Safety



WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

- 1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
- 2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start with the door open.
 - b. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, call a service technician.

- 3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.
 - b. Excessively high water level is evident.
 - c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.



WARNING

Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

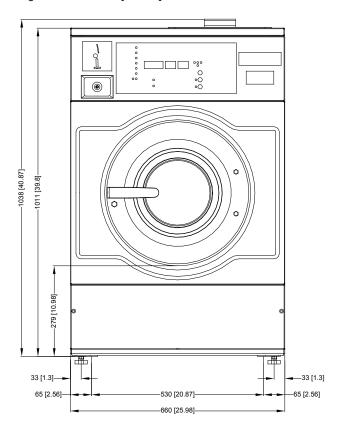
SAVE THESE INSTRUCTIONS

Technical data HC60, IHC012, IHC060

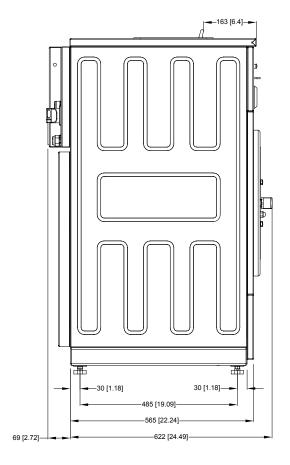
		METRIC	US
Capacity (dry weight) Ratio [kg	g/Lit]		
	1:11	5 kg	11.02 lb.
	1:10	5,5 kg	12.13 lb.
	1:9	6,1 kg	13.45 lb.
Cylinder			
	Diameter	530 mm	20.87 inch
	Depth	250 mm	9.84 inch
	Volume	55 Lit	1.94 ft³
Cabinet			
	Height	1038 mm	40.87 inch
	Width	660 mm	25.98 inch
	Depth	575 mm	22.64 inch
Front loading			
	Diameter door opening	300 mm	11.81 inch
	Height under door	279 mm	10.98 inch
	To center	505 mm	19.88 inch
Speed			
	Wash	10 - 50 tr/m	nin - RPM
	Distribution	85 tr/min	- RPM
	Spin	250 - 1250 tr	/min - RPM
G-factor			
	High spin	46	2
Dynamic bottom load (N/Hz)			
		570/	16
Motor (3-phase)			
	4p. 1470 tr/min	0,55 kW /	0,74 HP
Drain valve			
		2'	•
Water supply			
	Hard, soft, warm water	3/4	! "
Heating			
	Electrical 230/400 V	4,2	ν
	Electrical 400V	6 k'	W
	Steam	X	
	Warm water (without additional h	neating) X	
	Warm water (with additional hea		
Packing dimensions			
	(H x W x D) mm - inch	1140x740x840 mm - 44	.88x29.13x33.07 inch
Weight			
	Net	184 kg	405.65 lb.
	Gross	198 kg	436.52 lb.
	3.000	100 kg	-TOU.UZ ID.

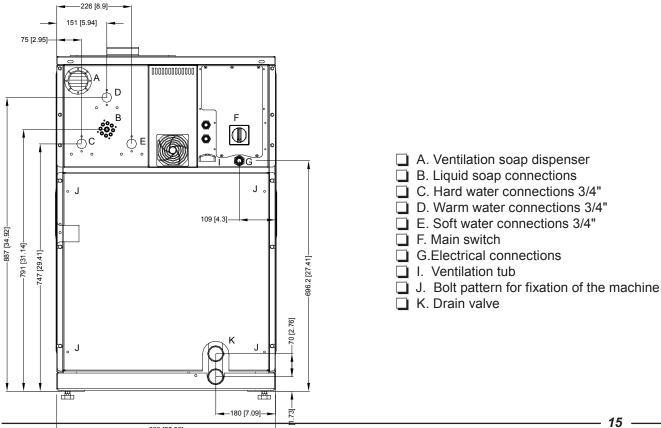
Dimensions HC60, IHC012, IHC060

Legend: metric mm [inches]



-660 [25.98]-



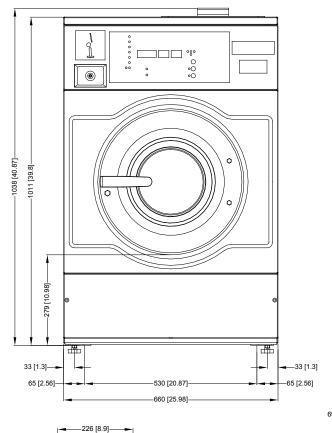


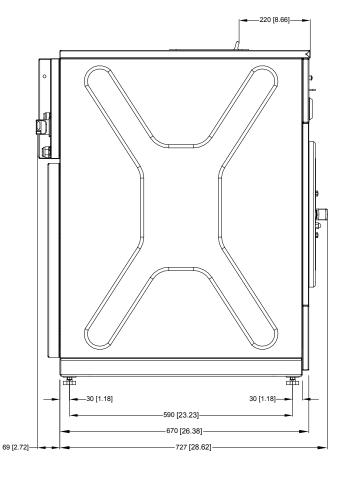
Technical data HC65, IHC014, IHC065

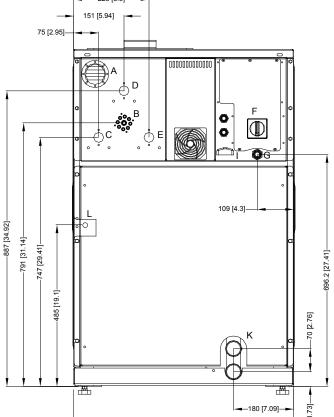
		METRIC	US
Capacity (dry weight) Ratio [kg	g/Lit]		
	1:11	5,9 kg	13.01 lb.
	1:10	6,5 kg	14.33 lb.
	1:9	7,2 kg	15.87 lb
Cylinder			
	Diameter	530 mm	20.87 inch
	Depth	295 mm	11.61 inch
	Volume	65 Lit	2.30 ft ³
Cabinet			
	Height	1038 mm	40.87 inch
	Width	660 mm	25.98 inch
	Depth	739 mm	29.09 inch
Front loading			
	Diameter door opening	300 mm	11.81 inch
	Height under door	279 mm	10.98 inch
	To center	505 mm	19.88 inch
Speed			
	Wash	10 - 50 tr/m	in - RPM
	Distribution	85 tr/min	- RPM
	Spin	250 - 1000 tr/	min - RPM
G-factor			
	High spin	296	;
Dynamic bottom load (N/Hz)			
		570/	16
Motor (3-phase)			
	4p. 1470 tr/min	0,75 kW /	1,01 HP
Drain valve			
		2"	
Water supply			
	Hard, soft, warm water	3/4'	•
Steam connection			
	Steam connection	3/8'	1
Heating			
	Electrical 230/400 V	4,2 kW - 6 k	W - 9 kW
	Electrical 400V	12 k¹	N
	Steam	X	
	Warm water (without additional	al heating) X	
	Warm water (with additional h	eating) X	
Packing dimensions			
	(H x W x D) mm - inch	1140x740x840 mm - 44.	88x29.13x33.07 inch
Weight			
	Net	207 kg	456.36 lb.
	Gross	229 kg	504.86 lb.
	3,000		504.00 lb.

Dimensions HC65, IHC014, IHC065

Legend: metric mm [inches]







-660 [25.98]-

- ☐ A. Ventilation soap dispenser
- B. Liquid soap connections
- ☐ C. Hard water connections 3/4"
- D. Warm water connections 3/4"
- E. Soft water connections 3/4"
- F. Main switch
- ☐ G.Electrical connections
- I. Ventilation tub
- ☐ K. Drain valve
- L. Steam connections

Technical data HC75, IHC018, CHC018, IHC075

		METRIC	US
Capacity (dry weight) Ratio [kg/	Lit]		
	1:11	6,9 kg	15.21 lb.
	1:10	7,6 kg	16.76 lb.
	1:9	8,4 kg	18.52 lb.
Cylinder			
	Diameter	530 mm	20.87 inch
	Depth	345 mm	13.58 inch
	Volume	76 Lit	2.68 ft ³
Cabinet			
	Height	1038 mm	40.87 inch
	Width	660 mm	25.98 inch
	Depth	739 mm	29.09 inch
Front loading			
	Diameter door opening	300 mm	11.81 inch
	Height under door	279 mm	10.98 inch
	To center	505 mm	19.88 inch
Speed			
	Wash	10 - 50 tr/min - RPM	
	Distribution	85 tr/min - RPM	
	Spin	250 - 1000 tr/min - RPM	
G-factor			
	High spin	29	96
Dynamic bottom load (N/Hz)			
		550	/16
Motor (3-phase)			
	4p. 1470 tr/min	0,75 kW /	1,01 HP
Drain valve			
		2	"
Water supply			
	Hard, soft, warm water	3/4	4"
Steam connection			
	Steam connection	3/8	8"
Heating			
	Electrical 230/400 V	4,2 kW - 6	kW - 9 kW
	Electrical 400V	12	kW
	Steam	>	(
	Warm water (without additional h		(
	Warm water (with additional hear	ting)	<
Packing dimensions			
	(H x W x D) mm - inch	1140x740x840 mm - 44	4.88x29.13x33.07 inch
Weight			
	Net	211 kg	465.18 lb.
	Gross	233 kg	513.68 lb.

Dimensions HC75, IHC018, CHC018, IHC075 Legend: metric mm [inches] -220 [8.66] **®** 1011 [39.8] 33 [1.3]--33 [1.3] 590 [23.23] 65 [2.56]--530 [20.87] -65 [2.56] -660 [25.98] -670 [26.38] 69 [2.72]-727 [28.62] -226 [8.9]-151 [5.94] 75 [2.95]-000000000000000 □ A. Ventilation soap dispenser□ B. Liquid soap connections ☐ C. Hard water connections 3/4" ■ D. Warm water connections 3/4" ☐ E. Soft water connections 3/4" F. Main switch -887 [34.92] ■ G.Electrical connections -791 [31.14]-747 [29.41] I. Ventilation tub K. Drain valve ■ L. Steam connections 485 [19.1]-

180 [7.09]

-660 [25.98]-

Technical data HC100, IHC025, CHC025, IHC100

		METRIC	US
Capacity (dry weight) Ratio [kg	g/Lit]		
	1:11	8,6 kg	18.96 lb.
	1:10	9,5 kg	20.94 lb.
	1:9	10,5 kg	23.15 lb.
Cylinder			
	Diameter	530 mm	20.87 inch
	Depth	440 mm	17.32 inch
	Volume	95 Lit	3.35 ft ³
Cabinet			
	Height	1038 mm	40.87 inch
	Width	660 mm	25.98 inch
	Depth	839 mm	33.03 inch
Front loading			
	Diameter door opening	300 mm	11.81 inch
	Height under door	279 mm	10.98 inch
	To center	505 mm	19.88 inch
Speed			
	Wash	10 - 50 tr/m	nin - RPM
	Distribution	85 tr/min	
	Spin	250 - 1000 tr	
G-factor	Ориг	200 - 1000 th	TIMIT - IXI W
G-lactor	High spin	290	â
Dynamic bottom load (N/Hz)	r light spilit	230	
Dynamic bottom load (N/HZ)		538/	16
Mator (2 phase)		550/	10
Motor (3-phase)	An AA70 talasia	0.7513477	4.04.UD
n	4p. 1470 tr/min	0,75 kW /	1,01 HP
Drain valve		011	
		2"	
Water supply			
	Hard, soft, warm water	3/4	."
Steam connection			
	Steam connection	3/8	."
Heating			
	Electrical 230/400 V	4,2 kW - 6 k	(W - 9 kW
	Electrical 400V	12 k	W
	Steam	X	
	Warm water (without additional	al heating) X	
	Warm water (with additional h	eating) X	
Packing dimensions			
	(H x W x D) mm - inch	1250x740x950 mm- 49	.21x29.13x37.40 inch
Weight			
	Net	236 kg	520.29 lb.
	Gross	258 kg	568.79 lb.
		-	

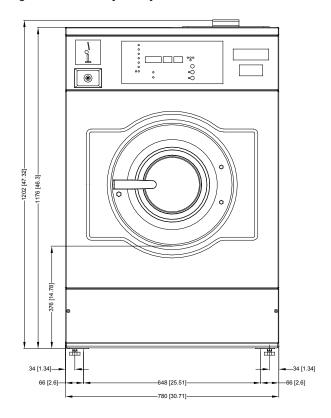
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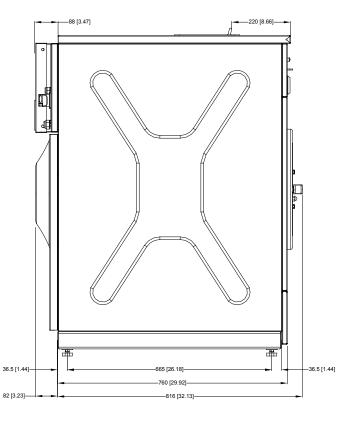
Dimensions HC100, IHC025, CHC025, IHC100 Legend: metric mm [inches] -220 [8.66]— **®** 1011 [39.8] 33 [1.3]--33 [1.3] 30 [1.18]— **-**—30 [1.18] 65 [2.56]-530 [20.87] -65 [2.56] -660 [25.98] 770 [30.31] 69 [2.72]--226 [8.9]-151 [5.94] 75 [2.95]-000000000000000 ☐ A. Ventilation soap dispenser ■ B. Liquid soap connections C. Hard water connections 3/4" ☐ D. Warm water connections 3/4" ■ E. Soft water connections 3/4" F. Main switch -887 [34.92] -791 [31.14]-■ G.Electrical connections 747 [29.41]-☐ I. Ventilation tub ☐ K. Drain valve ■ L. Steam connections 485 [19.1]-180 [7.09] -660 [25.98]-

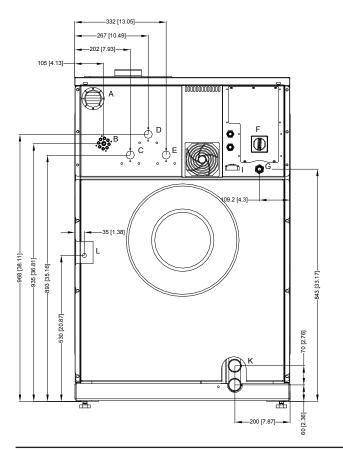
Technical data HC135, IHC030, IHC135

		METRIC	US
Capacity (dry weight) Ratio [kg	/Lit]		
	1:11	12 kg	26.46 lb.
	1:10	13,2 kg	29.10 lb.
	1:9	14,5 kg	31.97 lb.
Cylinder			
	Diameter	650 mm	25.59 inch
	Depth	400 mm	15.75 inch
	Volume	132 Lit	4.66 ft ³
Cabinet			
	Height	1202 mm	47.32 inch
	Width	780 mm	30.71 inch
	Depth	842 mm	33.15 inch
Front loading			
-	Diameter door opening	300 mm	11.81 inch
	Height under door	376 mm	14.78 inch
	To center	605 mm	23.82 inch
Speed			
.,	Wash	10 - 50 tr/n	nin - RPM
	Distribution	85 tr/min	- RPM
	Spin	250 - 1000 tr	
G-factor	- Opin	200 1000 1	711111 131 111
0 140101	High spin	36	3
Dynamic bottom load (N/Hz)	r ngri opin		
Dynamic Bottom load (17/12)		1100	/16
Motor (3-phase)		1100	710
motor (o-priase)	4p. 1470 tr/min	1,5 kW / 2	2 01 HD
Drain valve	тр. 1470 ti/IIIII	1,5 KVV 7	2,01111
Dialii vaive		2'	•
Motor oumsly		2	
Water supply	Hand ask warms water	011	
24	Hard, soft, warm water	3/4	•"
Steam connection	01 11	0.15	.
	Steam connection	3/8	3"
Heating	EL	40.1144 4-1	
	Electrical 230/400 V	12 kW - 15 kW - 18 kW	
	Electrical 400V	21 kW -	
	Steam	X	
	Steam Warm water (without additional	X I heating) X	
	Steam	X I heating) X	
Packing dimensions	Steam Warm water (without additional Warm water (with additional he	X I heating) X	
	Steam Warm water (without additional	X I heating) X	
Packing dimensions Weight	Steam Warm water (without additional Warm water (with additional he	X I heating) X eating) X	
	Steam Warm water (without additional Warm water (with additional he	X I heating) X eating) X	
	Steam Warm water (without additional Warm water (with additional he (H x W x D) mm - inch	X I heating) X eating) X 1310x850x940 mm- 51	.57x33.46x37.01 inch

Dimensions HC135, IHC030, IHC135





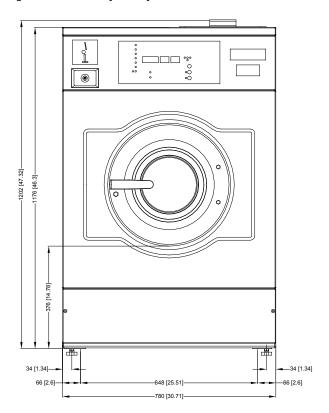


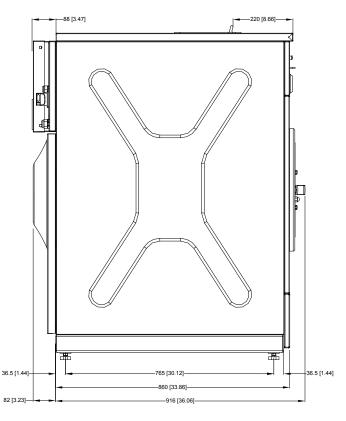
- A. Ventilation soap dispenser
- ☐ B. Liquid soap connections
- ☐ C. Hard water connections 3/4"
- ☐ D. Warm water connections 3/4"
- ☐ E. Soft water connections 3/4"
- ☐ F. Main switch
- ☐ G.Electrical connections
- I. Ventilation tub
- ☐ K. Drain valve☐ L. Steam connections

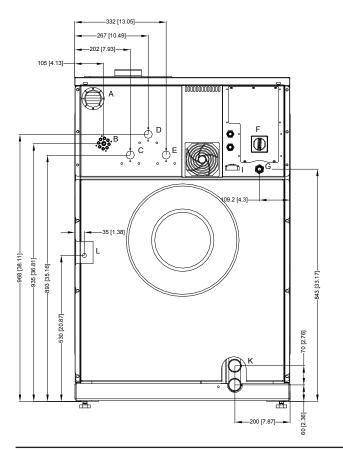
Technical data HC165, IHC035, CHC035, IHC165

		METRIC	US
Capacity (dry weight) Ratio	o [kg/Lit]		
	1:11	15 kg	33.07 lb.
	1:10	16,5 kg	36.38 lb.
	1:9	18,3 kg	40.34 lb.
Cylinder			
	Diameter	650 mm	25.59 inch
	Depth	500 mm	19.69 inch
	Volume	165 Lit	5.83 ft ³
Cabinet			
	Height	1202 mm	47.32 inch
	Width	780 mm	30.71 inch
	Depth	942 mm	37.09 inch
Front loading			
	Diameter door opening	300 mm	11.81 inch
	Height under door	376 mm	14.78 inch
	To center	605 mm	23.82 inch
Speed			
	Wash	10 - 50 tr/n	nin - RPM
	Distribution	85 tr/min	- RPM
	Spin	250 - 1000 tr	/min - RPM
G-factor			
	High spin	36	3
Dynamic bottom load (N/H	z)		
		1450	/16
Motor (3-phase)			
	4p. 1470 tr/min	1,5 kW / 2,01 HP	
Drain valve			
		2"	
Water supply			
	Hard, soft, warm water	3/4	"
Steam connection			
	Steam connection	3/8	,"
Heating			
	Electrical 230/400 V	12 kW - 15 k	W - 18 kW
	Electrical 400V	21 kW -	24 kW
	Liectifical 400 v		
	Steam	Х	
	Steam	al heating) X	
Packing dimensions	Steam Warm water (without addition	al heating) X	
Packing dimensions	Steam Warm water (without addition	al heating) X	
Packing dimensions Weight	Steam Warm water (without addition Warm water (with additional h	al heating) X neating) X	
	Steam Warm water (without addition Warm water (with additional h	al heating) X neating) X	
	Steam Warm water (without addition Warm water (with additional h (H x W x D) mm - inch	al heating) X teating) X 1310x850x1080 mm- 5	I.57x33.46x42.52 inch

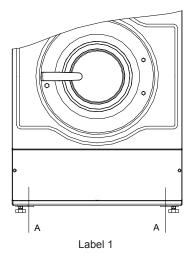
Dimensions HC165, IHC035, CHC035, IHC165







- A. Ventilation soap dispenser
- B. Liquid soap connections
- ☐ C. Hard water connections 3/4"
- ☐ D. Warm water connections 3/4"
- ☐ E. Soft water connections 3/4"
- ☐ F. Main switch
- G.Electrical connections
- I. Ventilation tub
- ☐ K. Drain valve☐ L. Steam connections



CAUTION

Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

Surface

The machine (with rubber feet) must be placed on a flat, solid bottom (concrete or fixed ground). When using a metal base or with machines with steam heating, *the machine (without feet) must be anchored* on the 4 provided locations (A) (See Label 1) in the base (bolts M10). (See Mounting Bolt Hole Locations). The height of the pad should not exceed 203 mm - 8 inch.

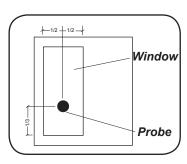
The machine must be placed entirely level. For easy maintenance it is recommended to keep a minimal distance of 600 mm - 23.62 inch between the wall and the back of the machine.

If several machines are placed next to each another, there should be a minimal distance of 30 mm - 1.18 inch between each machine.

- Important -

The bolt pattern for the fixation of the HC60 machine is located in the back panel of the cabinet. Put this panel on the floor and mark the holes (see page 15, reference point J).

Out of balance switch



Label 2

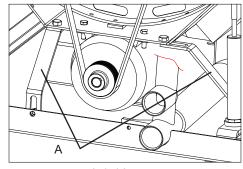
The out of balance switch is mounted on the solid part of the machine. There is a window around the probe of the out of balance switch that is mounted on the movable part of the machine.

When the machine goes out of balance by overloading or uneven distribution of the linen, the out of balance switch will interrupt this action to prevent damage to the machine.

Important —

To guarantee good functioning, the probe should be centered horizontally and vertically at 1/3 from the bottom of the out of balance window (when machine drum is empty). (See Label 2)

Removal of the transport safety



Label 3

To prevent damage during transportation, the machine has been equipped with two red transport brackets (A) to eliminate every possible movement of the tub. (See Label 3)

After the machine has been placed level, take off the back panel and remove these transport brackets.

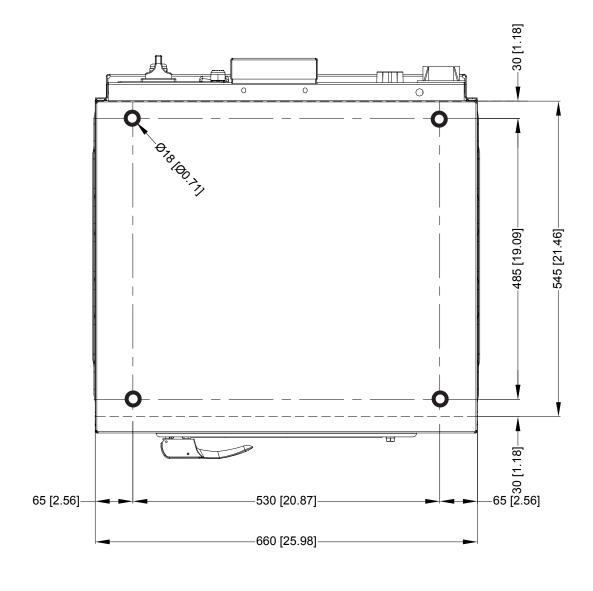
- Warning —

The machine must never be operated *before removing these transport brackets.*

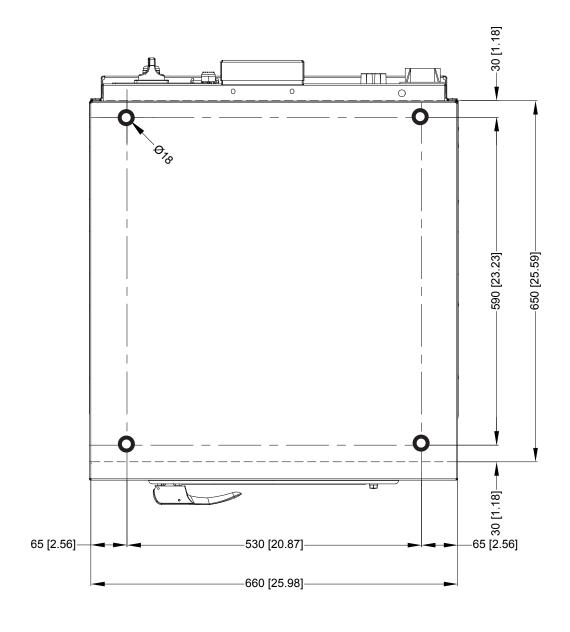
Mounting Bolt Hole Locations for machines, HC60, IHC012, IHC060

Legend: metric mm [inches]

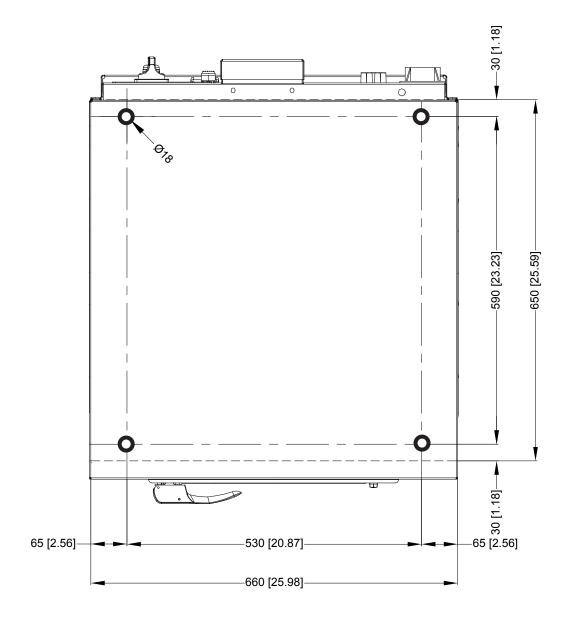
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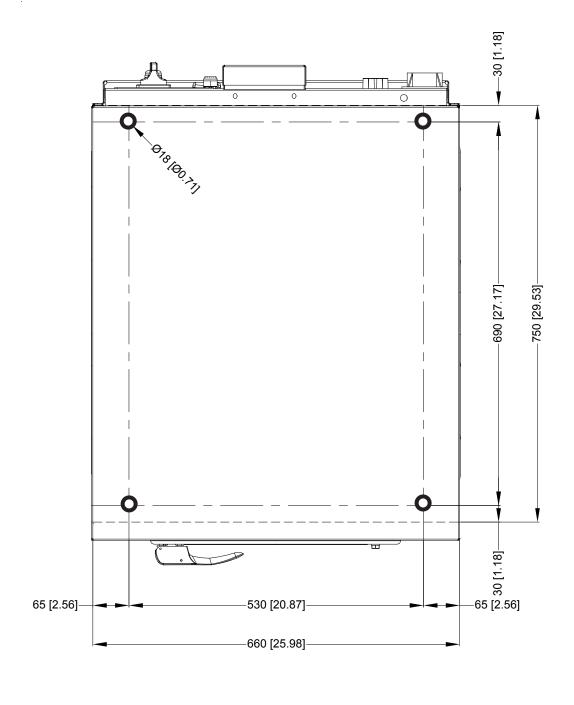
Mounting Bolt Hole Locations for machines, HC65, IHC014, IHC065



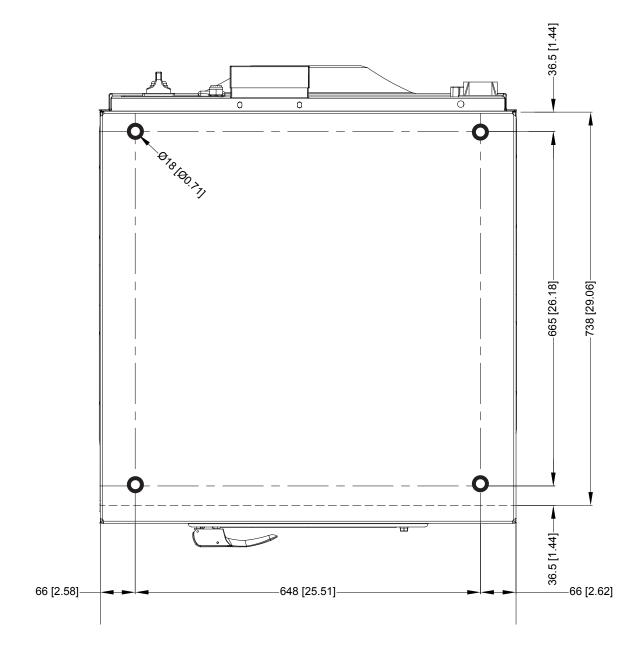
Mounting Bolt Hole Locations for machines, HC75, IHC018, CHC018, IHC075



Mounting Bolt Hole Locations for machines, HC100, IHC025, CHC025, IHC100



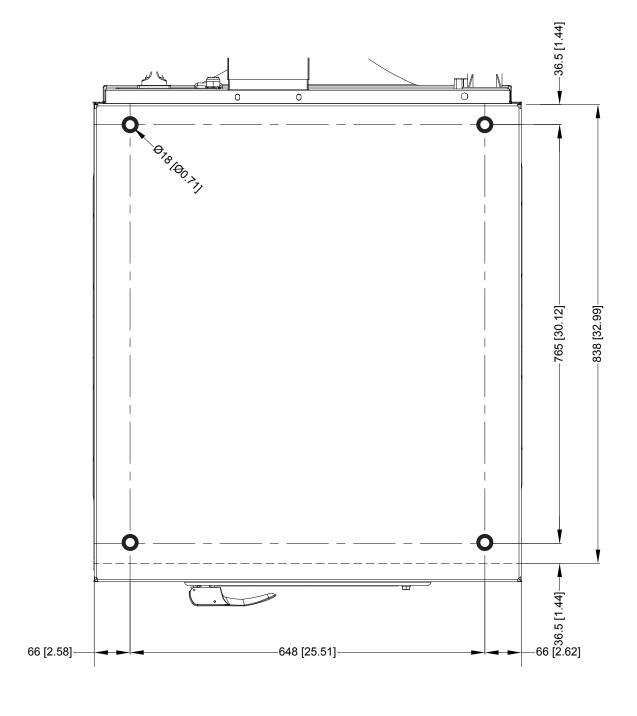
Mounting Bolt Hole Locations for machines, HC135, IHC030, IHC135



Mounting Bolt Hole Locations for machines, HC165, IHC035, CHC035, IHC165

Legend: metric mm [inches]

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Water connection

The machine is delivered with hoses with 3/4" connections. These hoses fit the water inlet valves of the machine and the main water inlet taps. All the inlet valves have to be connected. To ensure the optimal functioning of the water inlet valves, the water pressure on the inlet should be between 3 and 5 bar (40 and 80 psi). If the pressure is too low, the cycle time will increase considerably.

International inlet flow capacity per minute (gallons / liters): 4.23 / 16. US inlet flow capacity per minute (gallons / liters): 5.28 / 20.

In case of boiler fed machines, a minimum of hot water of 90°C - 194°F should be available per unit. (See Table 1)

MODEL	Min Contents Boiler	
MODEL	METRIC	US
For the HC60, IHC012, IHC060	46 I.	1.62 ft³
For the HC65, IHC014, IHC065	55 I.	1.94 ft³
For the HC75, IHC018, CHC018, IHC075	65 I.	2.29 ft ³
For the HC100, IHC025, CHC025, IHC100	80 I.	2.82 ft³
For the HC135, IHC030, IHC135	100 I.	3.53 ft ³
For the HC165, IHC035, CHC035, IHC165	120 I.	4.23 ft³

Table 1

To comply with the WRAS water regulations: an 'approved' single check valve or some other no less effective backflow prevention device shall be fitted at the point of connection(s) between the supply and the fitting (IRN R150).



Water drain

The machine is equipped with a drain valve with 2" outer diameter (50 mm). This drain valve should be connected to the drain by means of the drain elbow which is delivered with the machine.

- ☐ The diameter of the main drain should be adapted to the water flow and the number of machines. It should be sufficient to handle at least 80 l/min 21.13 gal./min per machine.
- ☐ It is necessary to connect the main drain at least on one side to an open air-brake to allow ventilation.

Electrical Installation

Important

Electrical ratings are subject to changes. Refer to serial plate decal for electrical ratings information specific to your machine.



WARNING

Hazardous Voltage. Can cause shock, burn or cause death. Allow machine power to remain off for two minutes prior to working in and around AC inverter drive.



WARNING

Hazardous Voltage. Can cause shock, burn or death. Verify that a ground wire from a proven earth ground is connected to the lug near the input power block on this machine.

The AC inverter drive requires a clean power supply free from voltage spikes and surges. If a transformer or generator is connected to the building's power supply, always install line reactors before the terminal block connections to the machine. A voltage monitor should be used to check incoming power. The customer's local power company may provide such a monitor.

If input voltage measures above 240V for a 220V drive or above 480V for a 400V drive, ask the power company to lower the voltage. As an alternative, a step-down transformer kit is available from the distributor.

The AC drive provides overload protection for the drive motor. However, a separate single or three-phase circuit breaker must be installed for complete electrical overload protection. This prevents damage to the motor by disconnecting all legs if one should be lost accidentally. Check the data plate on the back of the washer-extractor or consult Table 2 through 7 for circuit breaker requirements.

IMPORTANT: Do NOT use fuses in place of a circuit breaker.

For installation in the United States or Canada, branch circuit protection must be provided according to National and Local Codes. The branch circuit breaker must be of the inverse time or instantaneous trip type at the values given in the technical specifications for each machine. Use a circuit breaker of the minimal type of 10kA interrupt current.

CAUTION

Do not use a voltage or phase converter on any variable speed machine.

The washer-extractor should be connected to an individual branch circuit not shared with lighting or another electrical device.

- In accordance with legal regulations, every machine must be protected with an earth leakage circuit breaker of 30mA.
- The earth leakage circuit breaker, which one uses, must be of the type SI.
- For countries outside the European Community, the usual safety instructions must be observed.

The connection should be shielded in a liquid tight or approved flexible conduit with proper conductors of correct size installed in accordance with the National Electric Code or other applicable codes. The connection must be made by a qualified electrician using the wiring diagram provided with the washer-extractor, or according to accepted European standards for CE-approved equipment.

Use wire sizes indicated in Table 2 through 7 for runs up to 50 feet.

Use next larger size for runs of 50 to 100 feet. Use two sizes larger for runs greater than 100 feet.

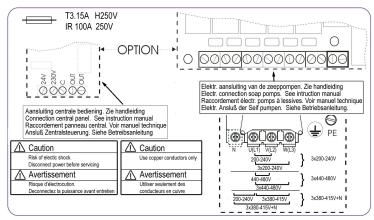
For personal safety and proper operation, the washer-extractor must be grounded in accordance with state and local standards. If such standards are not available, grounding must conform to the National Electric Code, article 250-95. The ground connection must be made to a proven earth ground, not to a water pipe, gas pipe, or another metal pipe. Provide the necessary equipotential connections according to the local electrical prescriptions.

GROUNDING INSTRUCTIONS

This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.

IMPORTANT: Alliance Laundry Systems Warranty does not cover components that fail as a result of improper input voltage.

Main power connection



Label 4

Connection label:

Machine power connections are made at the back of the machine. Three or four conductor power cable is the recommended method (See chapter electrical specs for minimum cable requirements, if local electrical codes exceed these requirements, follow local codes). The number of conductors in this cable and the proper connection points for the cable wires shall be determined by the machine and power requirements. All machines must have a ground wire and be properly grounded. The ground wire must be insulated with a green/yellow color. This wire is normally within the power cable but can also be a separate wire run along side the power cable if properly sized.

Never run a machine that does not have a ground wire. This ground wire must be connected to the machine grounding lug found near the main switch. This lug is identified with the international "protective earth" symbol and the letters "PE". Failure to connect this ground wire can lead to an unsafe machine condition leading to machine damage and/or operator injury or death. This wire must be connected to earth ground at far end.

Machine Power Cable Connections:

Remove main switch cover plate at back of machine (see chapter dimensions part (F)). Run power cable through the cabinet knock-out located directly below the cover plate. Before installing, obtain and install a cord-grip to hold the cable in place. Never rely upon the electrical connections to hold cable in place. Allow some slack in this cable outside of the machine to form a drip-loop between the supply power circuit breaker and the machine knock-out. Connect power cable wires as directed below. Always connect the ground wire first and remove last.

Wiring based on the supply power and machine design (voltage/frequency):

440-480 Volts, 3-Phase, 3-wire or 4-wire + PE, 50 or 60 Hertz Configuration (Named: N-Voltage):

With supply power of: 440-480 Volts, 3-phase, 3-wire, after connecting the green/yellow PE ground wire, connect one wire to each of the bottom terminals of the power contactor switch marked: "L1,L2,L3". When this supply power has four wires, connect this 4th wire, identified as a neutral wire, to the bottom terminal of the auxiliary contactor on the power contactor switch marked: "N". Connect the remaining power wires as first noted.

380-415 Volts, 3-Phase, 4-wire + PE, 50 or 60 Hertz Configuration (Named: P-Voltage):

With supply power of: 380-415 Volts, 3-phase, 4-wire, after connecting the green/yellow PE ground wire, follow the directions of the four wire system for 440-480 Volt configuration.

200-240 Volts, 3-Phase, 3-wire + PE, 50 or 60 Hertz Configuration (Named: Q-Voltage or 3-phase X-Voltage):

With supply power of: 200-240 Volts, 3-phase, 3-wire, after connecting the green/yellow PE ground wire, connect one power wire to each of the terminals at the bottom of the power contactor switch marked: "L1,L2,L3".

200-240 volts, 1-Phase, 2-wire + PE, 50 Hertz (called 1-phase, 50 Hz X-voltage):

With supply power of: 200-240 Volts, 1-phase, 2-wire, 50Hz, after connecting the green/yellow PE ground wire, connect the power wire to the "L1" bottom terminal of the power contactor switch and the other wire, identified as the neutral wire, to the bottom terminal of the auxiliary contactor on the power contactor switch marked: "N".

200-240 volts, 1-Phase, 2-wire + PE, 60 Hertz (called 1-phase, 60 Hz X-voltage):

With supply power of: 200-240 Volts, 1-phase, 2-wire, 60Hz, after connecting the green/yellow PE ground wire, connect one power wire to the "L1" and power wire to the "L2" of the bottom terminals of the power contactor switch.

☐ After connection, check the <i>spin direction</i> . The cylinder must spin in the <i>clockwise direction</i> .
A wrong spin direction can damage the motor and can also cause water to spurt from the soap dispenser.
☐ In case of wrong spin direction: switch the terminal clamps of the motor circuit "R" and "S" of the connecting cable or
change the connection at the terminal block switching the L1 and L2 wires.



The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

Electrical Specifications HC60, IHC012, IHC060

					60	lite	rs / 12 p	ounds	•					
					Boiler Fed/Steam Heat				Electric Heat					
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker (US-market)		AWG/mm2	Full Load Amps kW Standard Heating Elements		וומואפון	Recommended Circuit Breaker (US-	AWG/mm2	
						US	NON-US				US	NON-US		
N	440-480	50/60	3	3+PE	3	10	10	14/2.5		12	15	16	14/2.5	
Р	380-415	50/60	3	3+N+PE	7	15	16	14/2.5	222 14/4/	16	20	20	12/4.0	
Q	200-240	50/60	3	3+PE	7	15	16	14/2.5	3x2 kW	23	30	32	10/6.0	
Х	200-240	50/60	1/3	2/3+PE	7	15	16	14/2.5		N/A	N/A	N/A	N/A	
								Alternative Electric Heat Options						
N	440-480	50/60	3	3+PE						N/A	N/A	N/A	N/A	
Р	380-415	50/60	3	3+N+PE					271 4 1/1	13	15	16	14/2.5	
Q	200-240	50/60	3	3+PE					3x1.4 kW	18	20	20	12/4.0	
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A	

Table 2



The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

Electrical Specifications HC65, IHC014, IHC065

	65 liters / 14 pounds													
					В	oiler I	ed/Steam	Heat		Ele	ectric	Heat		
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker (US-market)		AWG/mm2	Full Load Amps kW Standard Heating Elements		ilidiket)	Recommended Circuit Breaker (US-	AWG/mm2	
						US	NON-US				US	NON-US		
N	440-480	50/60	3	3+PE	4	10	10	14/2.5		13	15	16	14/2.5	
Р	380-415	50/60	3	3+N+PE	12	15	16	14/2.5	3x2 kW	21	30	25	10/6.0	
Q	200-240	50/60	3	3+PE	12	15	16	14/2.5	SXZ KVV	27	30	32	10/6.0	
Х	200-240	50/60	1/3	2/3+PE	12	15	16	14/2.5		N/A	N/A	N/A	N/A	
									Alterna	ative E	ve Electric Heat Options			
N	440-480	50/60	3	3+PE						N/A	N/A	N/A	N/A	
Р	380-415	50/60	3	3+N+PE					254 4 1514	18	20	20	12/4.0	
Q	200-240	50/60	3	3+PE					3x1.4 kW	23	30	25	10/6.0	
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A	
N	440-480	50/60	3	3+PE						N/A	N/A	N/A	N/A	
Р	380-415	50/60	3	3+N+PE					3x3 kW	25	30	32	10/6.0	
Q	200-240	50/60	3	3+PE					SXS KVV	35	40	40	8/10.0	
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A	
N	440-480	50/60	3	3+PE						21	30	25	10/6.0	
Р	380-415	50/60	3	3+N+PE					3x4 kW	29	40	32	8/10.0	
Q	200-240	50/60	3	3+PE					SX4 KVV	N/A	N/A	N/A	N/A	
Χ	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A	

Table 3



The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

Electrical Specifications HC75, IHC018, CHC018, IHC075

75 liters / 18 pounds													
					В	oiler F	ed/Steam	Heat		Ele	ectric	Heat	
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker (US-market)		AWG/mm2	kW Standard Heating Elements	Full Load Amps	Recommended Circuit Breaker (US- market)		AWG/mm2
						US	NON-US				US	NON-US	
N	440-480	50/60	3	3+PE	4	10	10	14/2.5		13	15	16	14/2.5
Р	380-415	50/60	3	3+N+PE	12	15	16	14/2.5	3x2 kW	21	30	25	10/6.0
Q	200-240	50/60	3	3+PE	12	15	16	14/2.5	JAZ KVV	27	30	32	10/6.0
Х	200-240	50/60	1/3	2/3+PE	12	15	16	14/2.5		N/A	N/A	N/A	N/A
									Alterna	ative E	lectric	Heat Option	ons
N	440-480	50/60	3	3+PE						N/A	N/A	N/A	N/A
Р	380-415	50/60	3	3+N+PE					3x1.4 kW	18	20	20	12/4.0
Q	200-240	50/60	3	3+PE					3X 1.4 KVV	23	30	25	10/6.0
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A
N	440-480	50/60	3	3+PE						N/A	N/A	N/A	N/A
Р	380-415	50/60	3	3+N+PE					3x3 kW	25	30	32	10/6.0
Q	200-240	50/60	3	3+PE					JAJ KVV	35	40	40	8/10.0
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A
N	440-480	50/60	3	3+PE						21	30	25	10/6.0
Р	380-415	50/60	3	3+N+PE					3v4 k/M	29	40	32	8/10.0
Q	200-240	50/60	3	3+PE				3x4 kW	N/A	N/A	N/A	N/A	
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A

Table 4



The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

Electrical Specifications HC100, IHC025, CHC025, IHC100

					10	0 lite	ers / 25 p	ound	 S					
					В	oiler I	ed/Steam	Heat		Ele	ectric	Heat		
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker (US-market)		AWG/mm2	Full Load Amps kW Standard Heating Elements		Recommended Circuit Breaker (US- market) Full Load Amps kW Standard Heating Elements		Recommended Circuit Breaker (US-	AWG/mm2
						US	NON-US				US	NON-US		
N	440-480	50/60	3	3+PE	4	10	10	14/2.5		13	15	16	14/2.5	
Р	380-415	50/60	3	3+N+PE	12	15	16	14/2.5	3x2 kW	21	30	25	10/6.0	
Q	200-240	50/60	3	3+PE	12	15	16	14/2.5	SXZ KVV	27	30	32	10/6.0	
Х	200-240	50/60	1/3	2/3+PE	12	15	16	14/2.5		N/A	N/A	N/A	N/A	
									Alterna	ative Electric Heat Options				
N	440-480	50/60	3	3+PE						N/A	N/A	N/A	N/A	
Р	380-415	50/60	3	3+N+PE					0.4 4 1.04	18	20	20	12/4.0	
Q	200-240	50/60	3	3+PE					3x1.4 kW	23	30	25	10/6.0	
X	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A	
N	440-480	50/60	3	3+PE						N/A	N/A	N/A	N/A	
Р	380-415	50/60	3	3+N+PE					0.40 1444	25	30	32	10/6.0	
Q	200-240	50/60	3	3+PE					3x3 kW	35	40	40	8/10.0	
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A	
N	440-480	50/60	3	3+PE						21	30	25	10/6.0	
Р	380-415	50/60	3	3+N+PE					244 1414	29	40	32	8/10.0	
Q	200-240	50/60	3	3+PE					3x4 kW	N/A	N/A	N/A	N/A	
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A	

Table 5



The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

Electrical Specifications HC135, IHC030, IHC135

					13	5 lite	ers / 30 p	ound	 S				
					В	oiler I	ed/Steam	Heat		Ele	ectric	Heat	
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker (US-market)		AWG/mm2	kW Standard Heating Elements	Full Load Amps	ilidiket)	Recommended Circuit Breaker (US-	AWG/mm2
						US	NON-US				US	NON-US	
N	440-480	50/60	3	3+PE	6	15	10	14/2.5		23	30	32	10/6.0
Р	380-415	50/60	3	3+N+PE	18	20	20	12/4.0	6x2 kW	36	40	40	8/10.0
Q	200-240	50/60	3	3+PE	18	20	20	12/4.0	UXZ KVV	49	60	60	6/16.0
Χ	200-240	50/60	1/3	2/3+PE	18	20	20	12/4.0		N/A	N/A	N/A	N/A
									Alterna	ative E	lectric	Heat Opti	ons
N	440-480	50/60	3	3+PE						28	40	40	8/10.0
Р	380-415	50/60	3	3+N+PE					3x3 kW +	40	50	50	8/10.0
Q	200-240	50/60	3	3+PE					3x2 kW	56	60	60	6/16.0
Х	200-240	50/60	1/3	2/3+PE						56	60	60	6/16.0
N	440-480	50/60	3	3+PE						32	40	40	8/10.0
Р	380-415	50/60	3	3+N+PE					6x3 kW	44	50	50	8/10.0
Q	200-240	50/60	3	3+PE					UAS KVV	63	70	70	4/25.0
Х	200-240	50/60	1/3	2/3+PE						63	70	70	4/25.0
N	440-480	50/60	3	3+PE						36	40	40	8/10.0
Р	380-415	50/60	3	3+N+PE					3x3 kW +	49	60	60	6/16.0
Q	200-240	50/60	3	3+PE					3x4 kW	N/A	N/A	N/A	N/A
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A
N	440-480	50/60	3	3+PE						41	50	50	8/10.0
Р	380-415	50/60	3	3+N+PE					6v4 hM	53	60	60	6/16.0
Q	200-240	50/60	3	3+PE				6x4 kW	N/A	N/A	N/A	N/A	
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A

Table 6



The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

Electrical Specifications HC165, IHC035, CHC035, IHC165

					16	5 lite	ers / 35 p	ound	 S				
					В	oiler I	ed/Steam	Heat		Ele	ectric	Heat	
Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker (US-market)		AWG/mm2	Full Load Amps kW Standard Heating Elements		IIIdiket)	Recommended Circuit Breaker (US-	AWG/mm2
						US	NON-US				US	NON-US	
N	440-480	50/60	3	3+PE	6	15	10	14/2.5		32	40	40	8/10.0
Р	380-415	50/60	3	3+N+PE	18	20	20	12/4.0	6x3 kW	44	50	50	8/10.0
Q	200-240	50/60	3	3+PE	18	20	20	12/4.0	OXO KVV	63	70	70	4/25.0
Х	200-240	50/60	1/3	2/3+PE	18	20	20	12/4.0		63	70	70	4/25.0
									Alterna	ative E	lectric	Heat Opti	ons
N	440-480	50/60	3	3+PE						23	30	32	10/6.0
Р	380-415	50/60	3	3+N+PE					6x2 kW	36	40	40	8/10.0
Q	200-240	50/60	3	3+PE					OXZ KVV	49	60	60	6/16.0
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A
N	440-480	50/60	3	3+PE						28	40	40	8/10.0
Р	380-415	50/60	3	3+N+PE					3x3 kW +	40	50	50	8/10.0
Q	200-240	50/60	3	3+PE					3x2 kW	56	60	60	6/16.0
Х	200-240	50/60	1/3	2/3+PE						56	60	60	6/16.0
N	440-480	50/60	3	3+PE						36	40	40	8/10.0
Р	380-415	50/60	3	3+N+PE					3x3 kW +	49	60	60	6/16.0
Q	200-240	50/60	3	3+PE					3x4 kW	N/A	N/A	N/A	N/A
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A
N	440-480	50/60	3	3+PE						41	50	50	8/10.0
Р	380-415	50/60	3	3+N+PE					Cv4 IAM	53	60	60	6/16.0
Q	200-240	50/60	3	3+PE					6x4 kW	N/A	N/A	N/A	N/A
Х	200-240	50/60	1/3	2/3+PE						N/A	N/A	N/A	N/A

Table 7

Liquid soap connection (option)

0

Label 5

Connection of the liquid soap hoses

The liquid soap connection consists of 8 connections for liquid soap (See Label 5).

The central opening is used for ventilation.



WARNING

Dangerous Chemicals. May damage eyes and skin. Wear eye and hand protection when handling chemicals; always avoid direct contact with raw chemicals. Read the manufacturer's directions for accidental contact before handling chemicals. Ensure an eye-rinse facility and an emergency shower are within easy reach. Check at regular intervals for chemical leaks.

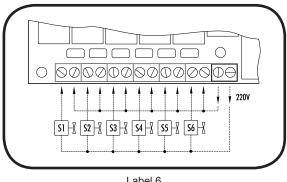
CAUTION

Drill out plugs and nipples before making supply hose connection. Failure to do so can cause buildup of pressure and risk a tubing rupture.

Electrical connection of the liquid soap pumps

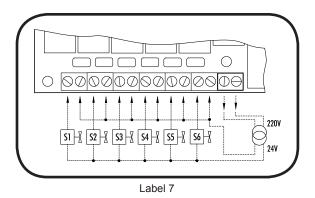
On machines equipped with a liquid soap connection, connect the wires directly on the print board next to the ground wire connection (option). Connect as indicated on the wiring diagram.

The two connectors on the right give a tension of 220V ~ (max. 4A) which can be applied to drive 220V ~ soap pumps. If more than 4A is required, an external tension will have to be used. 6 connections have been provided, of which one (S6) can be used to drive a waterproofing pump (e.g. for rain coats, etc.). (See Label 6)

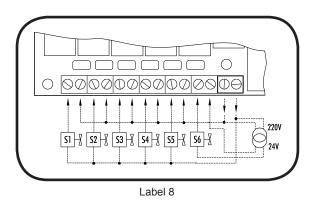


Label 6

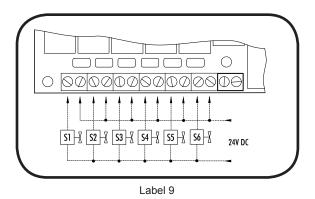
The 220V can be transformed to other values to drive other type soap pumps. Example: pumps $24V \sim$. (See Label 7)



Also, pumps with different operating tension can be combined. Example: 5 pumps 220V \sim and 1 pump 24V \sim . (See Label 8)



With an external tension 24V DC (See Label 9)



Connection of a central operating panel for coin machines (option)



WARNING

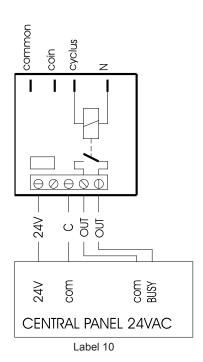
To reduce the risk of electric shock, disconnect this appliance from the power supply before attempting any user maintenance. Turning the controls to the OFF position does not disconnect this appliance from the power supply.

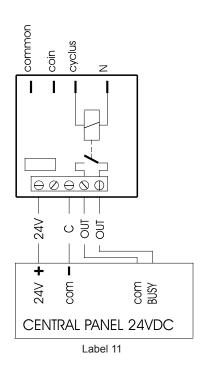
At the backside above the main connectors, you find a printboard, to which the central operating panel for coin machines can be connected.

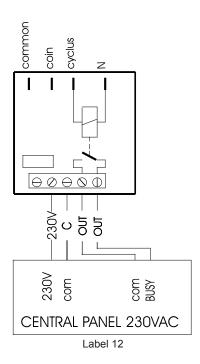
The right connectors form a potential free output contact as a result of which the operating panel detects when the machine is activated or not.

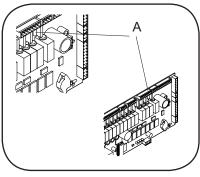
The left connectors receive the signal, by means of which a machine is chosen through the operating panel.

There are 3 different variations possible according to the output voltage of the operating panel. (See Labels 10, 11 and 12)









Label 13

IMPORTANT:

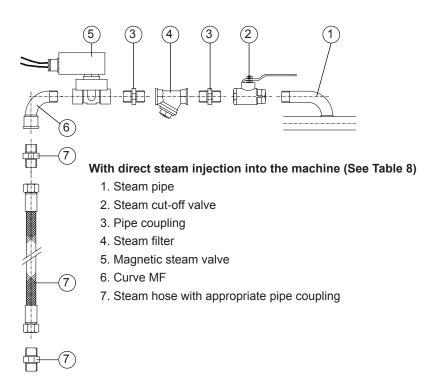
If a machine is equipped with this kind of printboard or if a printboard has been built in, the *resistance of the cycle contact (A) may no longer be present* on the main printboard. (See Label 13)

When this resistance is present, it has to be cut out of the main printboard.



Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

Machines with steam heating must have a steam valve between the steam installation and the machine.



Steam Supply Information													
MODEL	Steam inlet connection, inch	Number of steam inlets	Recommended pressure, bar	Recommended pressure, psi	Maximum pressure, bar	Maximum pressure, psi							
For the HC60, IHC012, IHC060	3/8	1	2.0 - 5.5	30 - 80	5.5	80							
For the HC65, IHC014, IHC065	3/8	1	2.0 - 5.5	30 - 80	5.5	80							
For the HC75, IHC018, CHC018, IHC075	3/8	1	2.0 - 5.5	30 - 80	5.5	80							
For the HC100, IHC025, CHC025, IHC100	3/8	1	2.0 - 5.5	30 - 80	5.5	80							
For the HC135, IHC030, IHC135	3/8	1	2.0 - 5.5	30 - 80	5.5	80							
For the HC165, IHC035, CHC035, IHC165	3/8	1	2.0 - 5.5	30 - 80	5.5	80							

Table 8

12

Internal connections of the electrical heating

1 AC

Heating	R5
3kw	LC1D0901
4,2 / 6 / 9kw	LC1D1810

Table 9

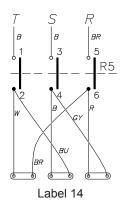
3 AC

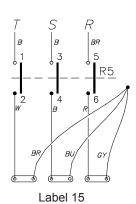
Heating		3x230V	R5	3x400V	R5
4,2kw	3x1,4kw	See Label 14	LC1D0901	See Label 15	LC1D0901
6kw	3x2kw	See Label 14	LC1D0901	See Label 15	LC1D0901
9kw	3x3kw	See Label 14	LC1D1810	See Label 15	LC1D0901
12kw	3x4kw			See Label 14	LC1D0901
12kw	3x2kw 3x2kw	See Label 14 See Label 14	LC1D1810 LC1D1810	See Label 15	LC1D0901
15kw	3x2kw 3x3kw	See Label 14 See Label 14	LC1D1810 LC1D1810	See Label 15	LC1D1810
18kw	3x3kw 3x3kw	See Label 14 See Label 14	LC1D1810 LC1D1810	See Label 15	LC1D1810
21kw	3x3kw 3x4kw			See Label 15 See Label 14	LC1D1810 LC1D1810
24kw	3x4kw 3x4kw			See Label 14 See Label 14	LC1D1810 LC1D1810

Table 10

B = Black Gy = Grey Bu = Blue

Br = Brown R = Red W = White





NOTE:

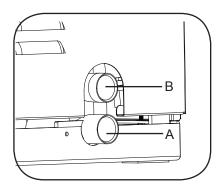
Other executions are available as options.



To reduce the risk of electric shock, disconnect this appliance from the power supply before attempting any user maintenance. Turning the controls to the OFF position does not disconnect this appliance from the power supply.

Before starting wiring or inspection, power must be switched OFF, check to make sure that the operation panel indicator is off. Any person who is involved in wiring or inspection shall wait for at least 10 minutes after the power supply has been switched OFF and check that there is no residual voltage using a tester or the like. The capacitor of the inverter or the EMC filter is charged with a high voltage for some time after power OFF, and it is dangerous.

Ena or aay	☐ Clean AC drive filter:
	a. Snap off external plastic cover which contains filter.
	b. Remove foam filter from cover.
	c. Wash filter with warm water and allow to air dry. Filter can be vacuumed clean.
General maintenance	Clean the entire cabinet of the machine regularly and remove all traces of soap, etc
	Remove all detergent residue in the soap dispenser with hot water.
	Clean the door gasket and remove all detergents and other products.
	□ Shut off the main water, steam, and power connections at the end of each day. Do not change the setting of the water inlet taps on boiler fed machines once these have been installed.
	It is recommended to leave the door and soap dispenser open after use, to ventilate the machine.
	☐ Check for proper door lock operation on a daily basis.
Periodical maintenance	☐ Two to three months after the first use, the V-belts of the motors should be checked whether they still have the correct tension. This is necessary because these belts are subject to a one-time stretching when first used. <i>If this is not done,</i> the belt starts to slip after a few months and will break shortly afterwards.
	☐ Check the water inlet filters to make sure they are not blocked by calcification.
	☐ Check the drain valve for obstructions.
	☐ If a machine frequently skips the final spin, check whether the probe of the out of balance switch is still in the appropriate position, that is horizontally centered and vertically 1/3 from the bottom inside the window. (When the drum is empty).



- Important -

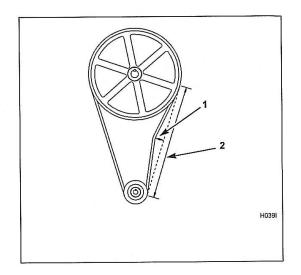
- Clean the drainpipe every 6 months in case drain (B) is used.
- The water still being in the drain needs to be drained using drain (A) before cleaning the drainpipe or replacing the exhaust valve.

Annual maintenance

Belt tension:

- ☐ Verify that the belts are running in the middle of the basket pulley.
- ☐ Verify the belt tension according to the table below. Belt tension measurements should be taken as close as possible to the center of the belt span (see figure).

	Belt tension testing table													
Model	Belt	Frequer	ncy (Hz)	Tension	force (N)	Deflecti	on (mm)	Deflection force						
		MIN	MAX	MIN	MAX	at MIN tension	at MAX tension	MAX						
HC60	8PJ 1355	107	137	470	766	7	4	40						
HC65	8PJ 1355	107	137	470	766	7	4	40						
HC75	8PJ 1355	107	137	470	766	7	4	40						
HC100	8PJ 1355	107	137	470	766	7	4	40						
HC135	HC135 10J 1473 75		105	316	618	10,5	6,4	40						
HC165	10J 1473	75	105	316	618	10,5	6,4	40						



- 1 Deflection
- 2 Span length

Nameplate

Nameplate Location

The nameplate is located at the rear of the machine. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. See Labels 16 and 17.

Туре:	HC 60C	No: 07110	H11029
Voltage:	1 ~ 220V 50Hz	Poids:	189 kg
Moteur:	0.55kW 2.5A	Capacité:	55 L
Chauffage:	eau chaude	Linge sec:	5 Kg
Total:	0.55 kW	Tambour: 5	30 mm
Energie cinétic	que: 1186 N/m	Vitesse: 12	250 rpm
Fabriquée en:	2007	TO SECULIAR	13. 18-13
Water pressu	ıre: min 4 - ma	x 6 bar	IPX4
sfc: 741608	4.0 %		
Alliance Inte	rnational BVBA Nieuwstraat 146 8560 Wevelgem Belglum Tel: +32 56 41 20 54 Fax: +32 56 41 86 74 www.ipso.be		(

Label 16

Volts Hertz: 20	0-240	50/60	Type: HC100C		
Phase:	1/3				
Amps:	12	amps	Capacity:	25/9,5	lbs/kg
Recommended Circuit Breaker:	15	amps	Water Pressure: 2	30-85 07-5.86	B.00+0400
Interrupt Current:	10	kA	Max Speed:	1000	rpm
Motor:	1 0.75	hp kW	Net Weight:	524 238	lbs kg
Elec Heat:	N/A	kW		IPX4	
Steam heat:	N/A N/A				47731

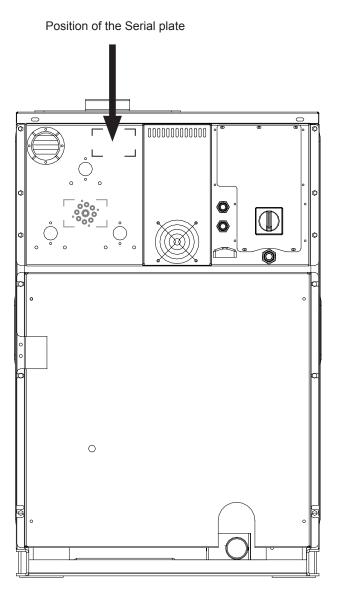
Made in Belgium



TEL 1-920-748-3121 Alliance www.comlaundry.com



Label 17



Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact the phone numbers or websites shown on the nameplate.

D : ()	
Distributo	r: Name:
	Address:
	Tel.:
Machine	: Type:
	Program:
	Date of installation:
	Installed by:
	Serial number:
	Operation voltage and frequency:
(

☐ In case of important malfunctions and deficiencies, which you cannot

resolve yourself, contact your distributor.

Alliance Laundry Systems Shephard Street, PO BOX 990 Ripon, WI 54971-0990 United States

Tel: 001 920 748 3121 - Fax: 001 920 748 1645

www.comlaundry.com

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